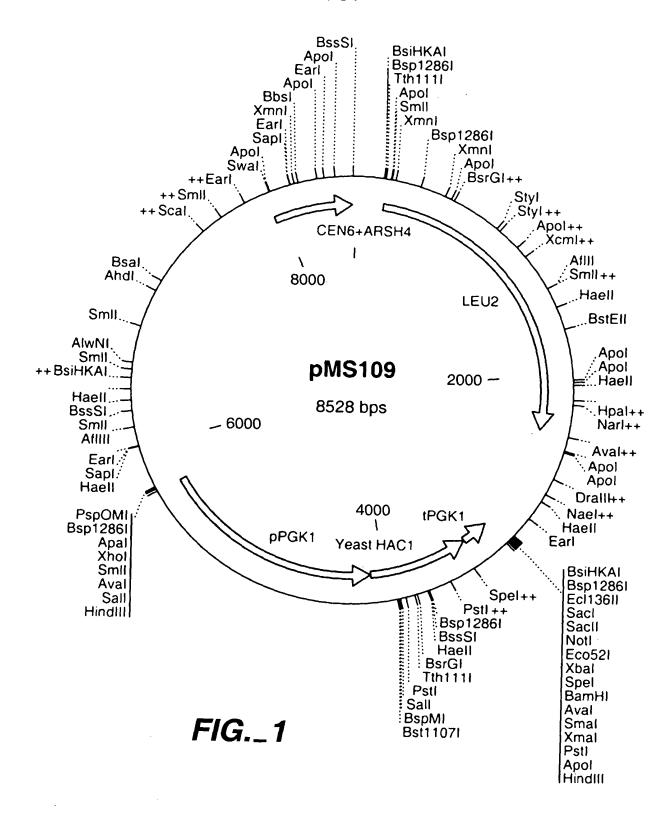
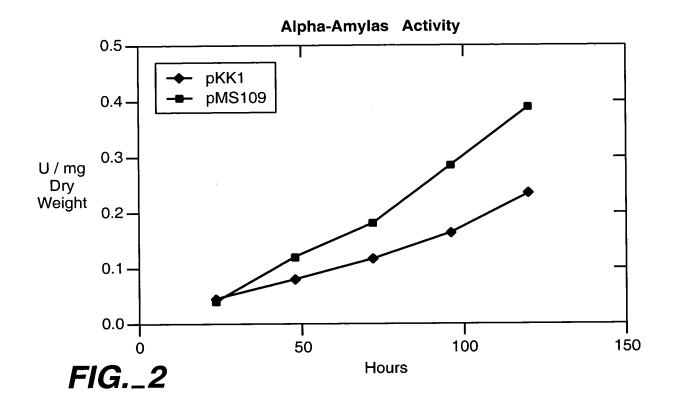
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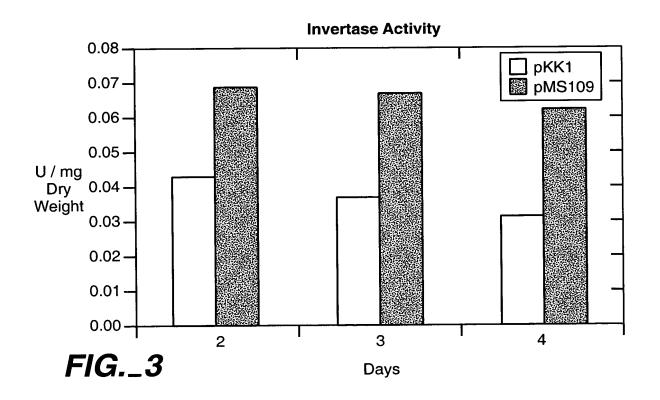


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Penttila et al.
SN# Unassigned
Docket No. GC590-2-C1

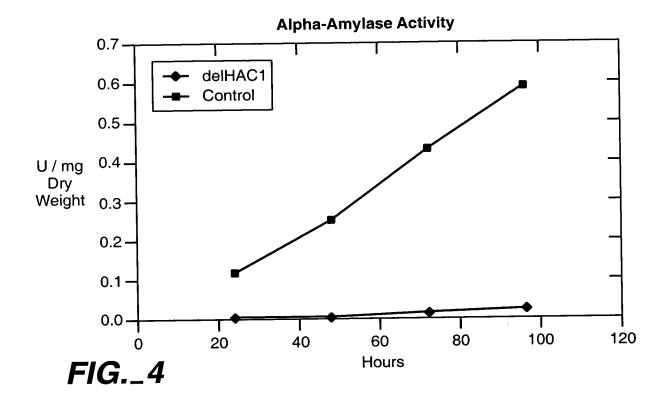
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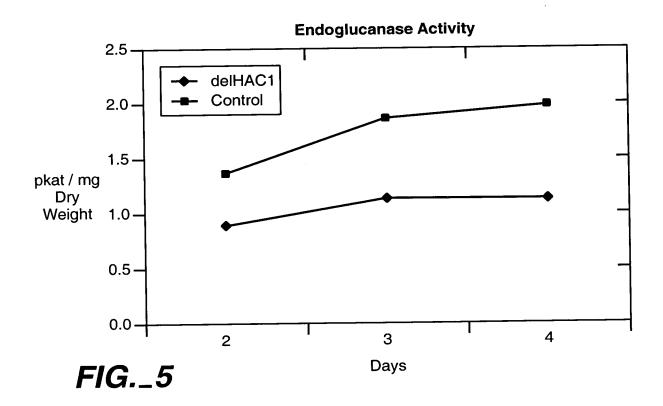




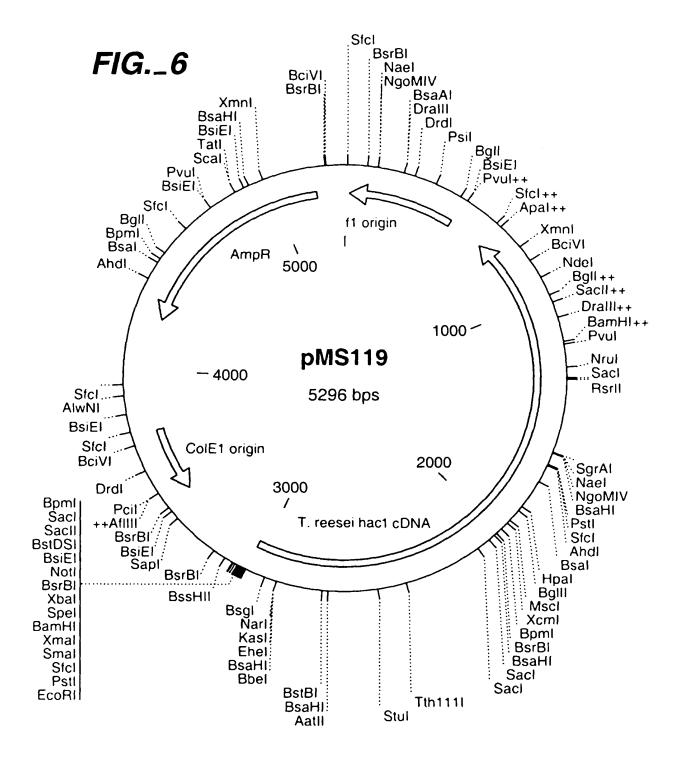
Penttila et al. SN# Unassigned Docket No. GC590-2-C1

3/34





4/34



5/34

990	GCGTGTTCTCCGCAACCGCCGCGCGCGCGCGCGCGCGCGC
900	cggctcacttgatacaacttgcatcctaaccaaacgttactgtagAAAACGTGCAAAGACGGAAGATGAAAAGGAGCAGCGCCGCGTCGA K R A K T E D E K E Q R R V E
810	GAAAAGAAGCCCGTCAAGAAAAGAAAATCATGGGGCCAGGTTCTTCCTGAGCCCAAGACCACCTCCTCGGtatgtcactgcaaca E K K P V K K R K S W G Q V L P E P K T N L P P R
720	ATCGACTCTCGCCTGTCCTCCCCGAATCACAGGACGCGGAAGATGACGAATCACACTCCCACATCCGCTACCGCACCCTCTACCTCA
630	CCCGGCGACAACTTCACATCCCTCTCGACTCAACACCTTAACCCTTCGGGACATGATGACCCTGACAGCGTCGCCGAC
540	CAACACGACACGCAGGCAACATGGCGTTCCAGCAGTCTCCCCTCGTCAAGTTTGAGGCCTCTCCCGCCGAATCCTTCCT
450	CTTTCATATACACCACACGCTTATGCAGTGAGAGAGCACGAGAGAAGCATCGTCATAATCAACACATCAGTCAAAGCGAACTGCGCTCGG
360	CGAAAAAACCAACTCCGTCTCCTTTCGAAGAAGAACAGTTGGTCCGACGTCACAAGCACATTCACAAAAATCAAAACATATCCCCAT
270	TGATTTGATTGCTTCTCTCTCTCTCTCTCTTCTTCTTCTTCTACTACTACT
180	GCTTCCCACTGACTCATTTGGGACTGGCGCCGTTGCCTGTCATGACTGTTCGCATCGTCGTCATCAACCATCGACTGACACGCTTCGCTT
9 0	GCAGAGGGCCACTCTGTCCTGTCTGACTCATCACTCCTCGACAGCATCACCAAGGGGAACGCACTGCACTTGGACACAGCCACTC

CGAGACGCTCCTCATCAACGTCCAGAAGACCAACCTGATCCTCGAGGAGCTCAACCGCTTCCGACGCAGCTCAGGCGTCGTCACCCG 1080 E T L L I N V Q K T N L I L V E E L N R F R S S G V V T R

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CTCGTCCTCCCCCCTCGACTCTCTCCAGGACAGCATCACTCTCTCCCAGCAACTCTTTGGCTCGCGGGATGGCCAAACCATGTCCAAGCC

1170

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1350 GGACAAGGAGTTCCAGACCAAGGAGGAGGACGAGGACAGGCCGACGAAGATGAAGAGAGATGGAGCAGACATGGCACGAGACCAAAGAAGC × \vdash 团 耳 3 \vdash Ø 团 \mathbf{z} 闰 闰 Ω ഠ Д ď Ø 囝 闰 Ω 团 団 × H Ø ഠ

1440 CGCCGCCGCCAAGGAGAAGAACAGCAAGCAGTCCCGCGTCTCCACTGATTCGACACAACGTCCTGCagagatgttgtgcgacccgcAGTG > Д æ Ø H Д ß > ĸ ß Ø × ß Z × 回 1530 TCAATCGGTGGAGATGCCGCTGTCCCTGTCTTCTCAGACGACGCCGGCGCAAACTGCCTTGGCCTGGACCCTGTTCATCAGGATGATGGT Ö O Ω L Ö Ц Ö z K Ö Z, Ω Ω ß Ĩ4 Ø

1620 CCTTTCAGCATCGGCCATTCTTTCGGCCTGTCAGCGCCCTTGATGCAGATCGCTATCTCCTCGAAAGCCAACTTCTCGCTTCGCCAAC 2 S K L Ø ß (±) L Ы ĸ Д ď Ω J ď ď Ø ᆸ Ö Ŀ Ø H Ö Д

1710 GCCTCAACTGTTGACGACGATTATCTGGCTGGTGACTCTGCCGCCTGCTTCACGAATCCTCTCCCCTCCGACTACGACTTCGACATCAAC Ω Ø Д П Д Z H (I) O Ø K ß Ω Ö K J Ω A A

1800 GACTTCCTCACAGACGACGCAAACCACGCCGCCTATGACATTGTGGCAGCGAGCAACTATGCCGCTGCGGACCGCGAGCTCGACCTCGAG Д 团 跘 Д ď æ ø Z ß ď ď > Н Д × Ø K 二 Z ď Д

1890 **ATCCACGACCCTGAGAATCAGATCCCTTCGCGACATTCTATCCAGCCCCCAGTCTGGCGCGTCCTCTCATGGATGCGACGATGGCGC** Ö Ω Д \mathbf{c} Ö Ξ S S K Ö S Ø Д 0 O H ß 二 跘 S ρ, Ø Z 回

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FIG. 7B

7/34

GIGCCTACGCAGCGIGACCTIGCCGICTCGAGAGICCTCATCACCCTGIGGIGGGCCGIGAAGGIGGAGGAGGAGAAGAITCGCCTGAG 2070 GCAGCACAAGAAGCAGGCCGCGGCTCTCGACCCCCGAGAAGCGCGCCTCCTTGGCAGACAAGAAGAACCGACAACAACAACAACAACAACA 2160 CCAGTATCAGATTCCTTCGTTTTCAAAATAGTTAGCATATGTGGTTTTTTAATGGGCAATGGGGCGGATGGCAACACGGTAGAGGCAACA 2250 CTCTTCATCTCCCTTTACACTTCTCTCTAGATGGTAGTGATGATATACTGTACCAAAATACAACGTCTACCTAGTGCT 2418

FIG. 7C

8	/	34

006	ATCCCTTTTCCAACTCCCTCGTGACCGACTACTCCCCAACTCTTTAAGCCTTCATCTCTGGCTGAGTCCCCCGATTTGACACATCCT I P F P T P S V T D Y S P T L K P S S L A E S P D L T Q H P
810	ACTCCAACTTCCAGTTCCCCGGGTTTCGCCAACTCTCACACGACTTTTTAAGCAGGAAGGGGATGAGGTTCCTCTGGACCGC T P T S S S P A S V S P T L T P T L F K Q E G D E V P L D R
720	CAGCGTCTCGCCCAGATGGAGGCTGAGAACAACCGTTTAAGTCAGCAAGTTGCTCAGGCTATCCGCGGAGGTTCGGGGATCCCGCCACAGC Q R L A Q M E A E N N R L S Q Q V A Q L S A E V R G S R H S
630	GCACAAACCTCTCGCGAGCGCAAGAGTTGAAAGTTAGAAAGCGAGAAGATTGATATGGAACAACAAAACCAGTTCCTTCTT A Q T S R E R K R L E M E K L E S E K I D M E Q Q N Q F L L
540	cctgctaataactaccacagAAAACGCGCTAAGACAGAAGATGAGAAGCAGCGCCGGATTGAGCGAGTTCTTCGCAACCGCGCAGCC
450	AGAAAAGAAAGTCCTGGGGCCAGGAATTACCAGTTCCCAAGACATACCTCCAAGGtgtgtgatacctcaagagtcaactccttact K K R K S W G Q E L P V P K T N L P P R
360	TTCCTGTGCTCACTGTCTCCCGGCTGACATCTCTTCGGACGAGAATGTGGTGGCTCAGACAAAGCCTGAGGAAAAAGCCAGCGA V P V L T V S P A D T S L R T K N V V A Q T K P E E K K P A
270	TGAGTTGTATGAAATCAGCAGACGGTTTTCGCCAGTGAAAATGGAGGACGCTTTTCGCAAACTCTTTGCCTACTACCCCGTCATTGGAGG
180	AAGTGACTCAGGCAAGGCAATCCCAGTTCCAACTCCCAACTTCGCAACCTCATCAACCACCTGCTTCCGTCTAGTTGCAGTTATCAGACT
90	GCCATCCTTGGTGACTGAGCCCCAACACTTTCACTGGTCGGGATAGTAGCCTCTGGCTTCGATTCGCTATGACACCGTGGCCTCTGTCCT

FIG._8A

GCagegatgttgtgcgacctgcAGTCGGCGGCTCGAAGGAGATGAAGTGCCCTCACGCTTTTCGACCTCGGAGCAGTTTA ${\sf A}$

990

AGCATGAGCCTACACATGACCTTACAGCTCCTCTTTCTGACGATGACTTCCGCCGCCTATTCAACGGTGATTCATCCCTTGAGTCAGATT 1080 G Z ſτι ᆸ æ æ Ω Ω S Ω 二 CTTCACTCCTTGAAGACGGGTTCGCCTTTGACGTTCTCGACTCAGGAGATTTATCAGCATTTCCATTTGATTATGATTGGTTGATTTTGACA Ĭ4 Ω Σ ß Ω Д, [z, æ വ H Ω Ö ß Ω П > Д Ŀ K [z, Ö Ω 田 u 口 ß

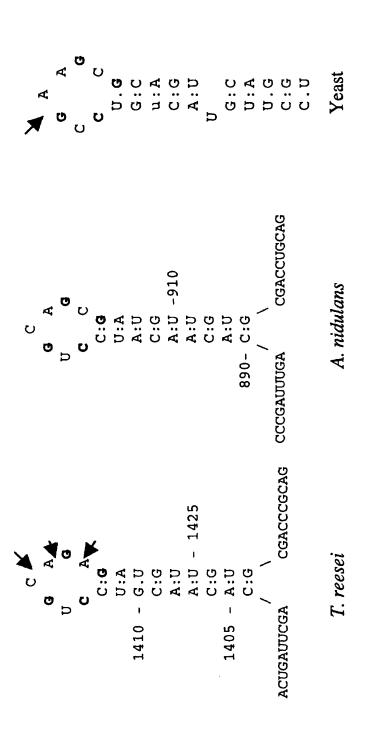
1260 CCGAGCCTGTCACCCTCGAAGATCTCGAGCAAACCAACGGCCTTTCGGATTCAGCTTCTTGCAAGGCTGCTAGCTTGCAACCCAGCCATG 二 മ ß ď K × Ö S K S Д ß Ы Ö Z Q 闰 А 臼 Ц 1350 GCGCGTCCACTTCGCGATGCGACGGGCAGGGCATTGCAGCTGGCAGTGAGAGGTTTTCGACGGAAGACCGTCTGGTTCCCGATGTT

ß G ď ď Н G Ø O Ω Ö K ល ß Ö

GTAGAGGGTCGATGGAGCTGGGAATCCTTGTTAACGCTAGCGTCGGCGATAAATCTTCTTGAGAAACCGGAGCGACGAAGAAGAACCTTG 1440

1350 AGGGGTCTTGATTCGTTAAAGCGGGGTCGGCGTATTGATTCGGGGAAGCGGTACAGGGTCATACGGAGTTCACGGAGTTCAACTAGCCCA

FIG._8B



937 CCACTGATTCGACACAACGTCCTGCagagatgttgtgcgacccgcAGTGTCAATCGGTGG 1451 CCCCCGATTTGACACACATCCTGCagcgatgttgtgcgacctgcAGTGTCAGTCGGCGG A. nidulans T. reesei

FIG._9

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11 / 34

reesei nidulans	MAFQQSSPLVKFEASPAES MKSADRFSPVKMEDA]	FANSLPTTPSLEVPVLTVS	
	VADIDSRLSVIPESQDAEI PADTSLRTKNVVAQTKPE			
	PKTNLPPRKRAKTEDEKEG PKTNLPPRKRAKTEDEKEG *KSTLPPRKRAKTKEEKEG *. ******** .***	QRRIERVLRNRAA QRRIERILRNRRA	AQTSRERKRLEMEKLESE AHQSREKKRLHLQYLERKO	K 119
	KELETLLINVQKTNLILVI IDMEQQNQFLLQRLAG SLLENLLNSVNLEKLAI	QMEAENNRLSQQV.		
reesei nidulans	LFGSRDGQTMSNPEQSLM PASVSPTLTPTLFKQEGD:		VTDYSPTLKPSSLAE	
reesei nidulans	EEDEEQADEDEEMEQTWH		KQSRVSTDSTQRPAVSIG	G 226
 reesei nidulans	DAAVPVFSDDAGANCLGL LEGDESALTLFDLGA **		HSFGLSAALDADRYLLES	
 reesei nidulans	SSLLEDGFAFDVLD			
	VAASNYAAADRELDLEIH DSASCKAASL			GSA 350

12/34

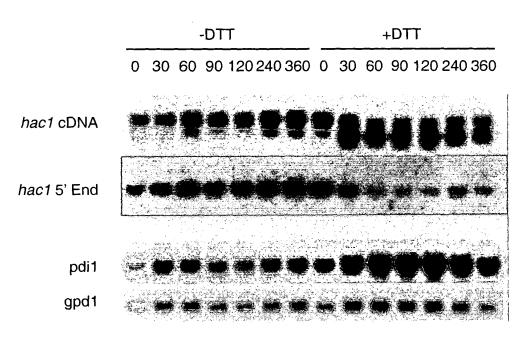


FIG._11

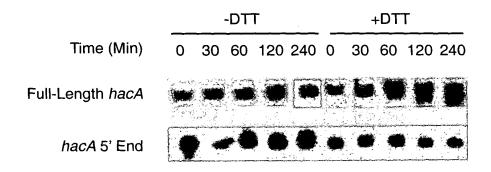
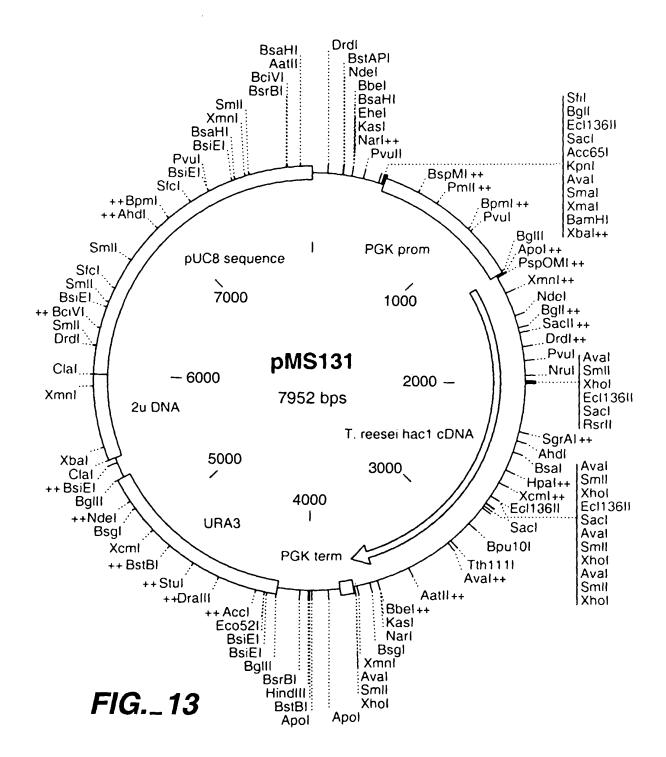
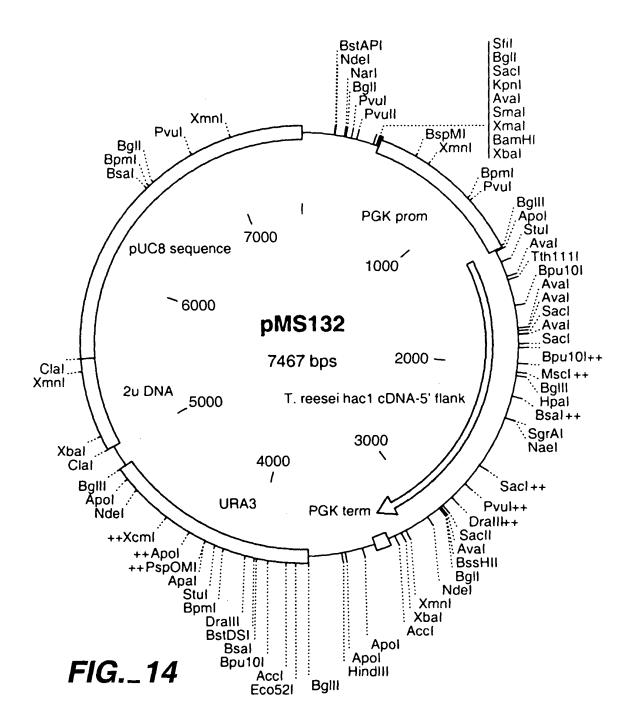


FIG._12

13/34



14/34



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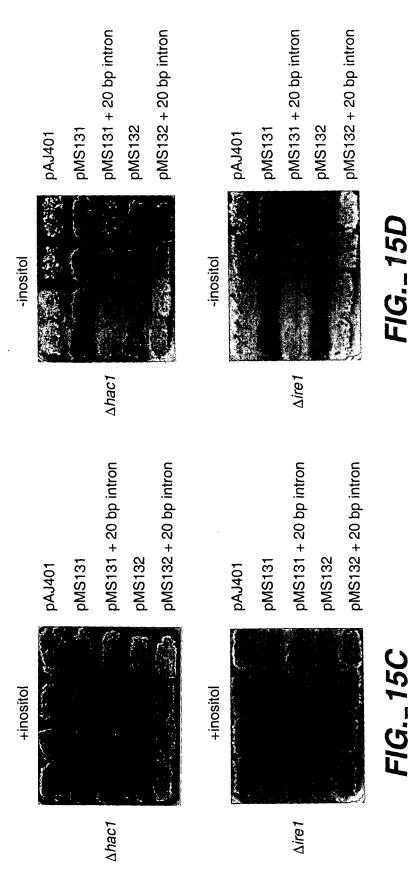


FIG._ 15B

FIG._ 15A

Increased Production of Secretary Foreigns by Recombinant Eukaryotic Cells
Penttila et al.
SN# Unassigned
Docket No. GC590-2-C1

16/34

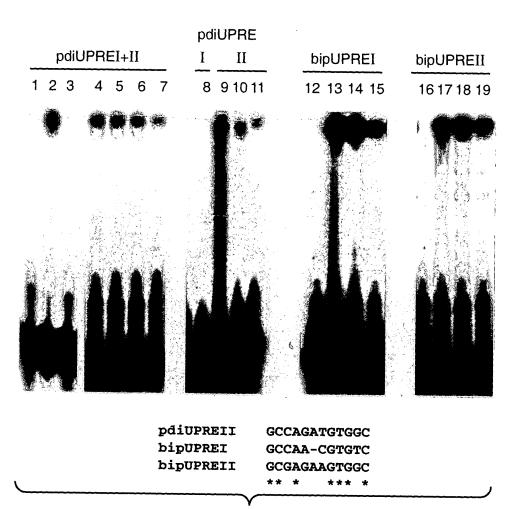
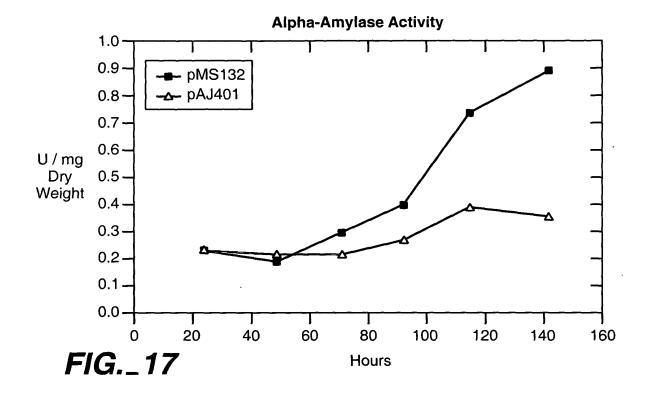
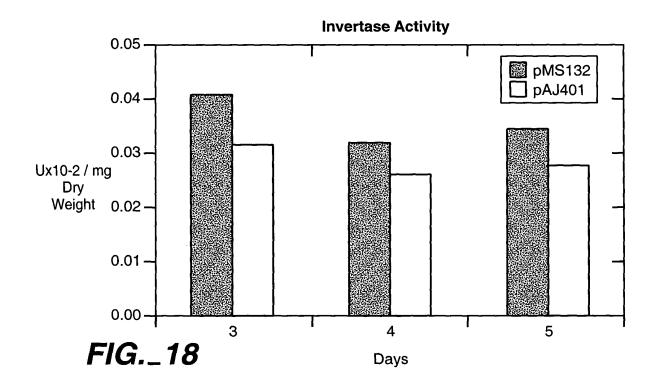


FIG._16

17/34





18/34

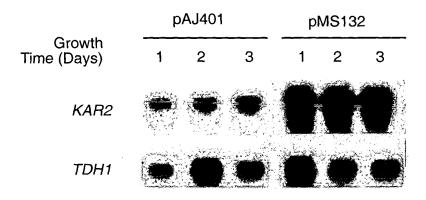


FIG._19A

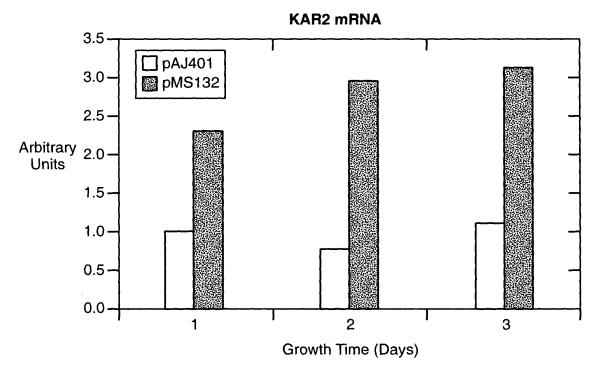
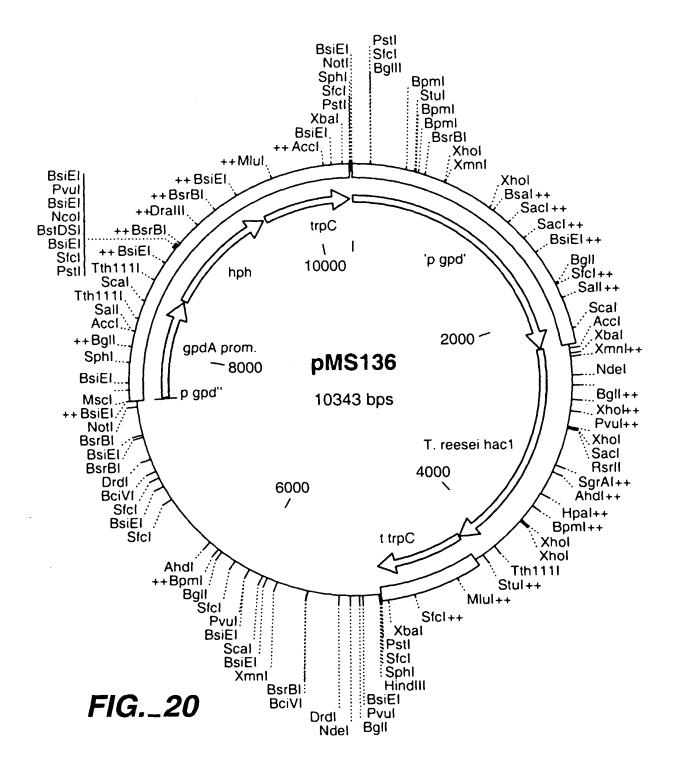


FIG._19B

19/34



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20 / 34

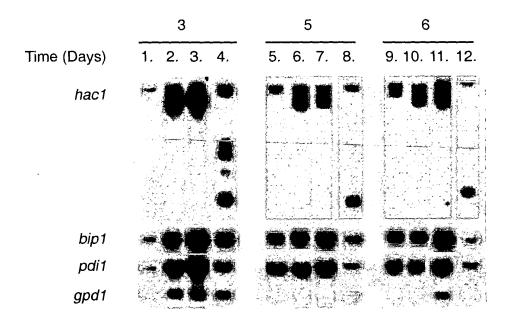


FIG._21A

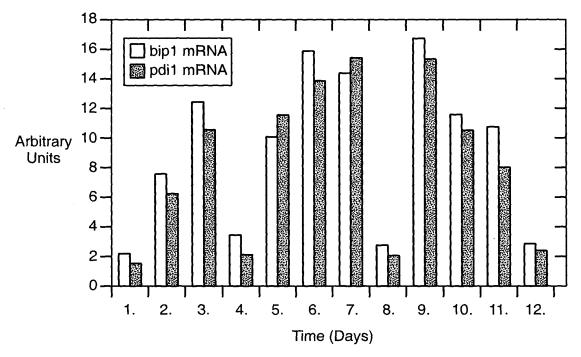


FIG._21B

21/34

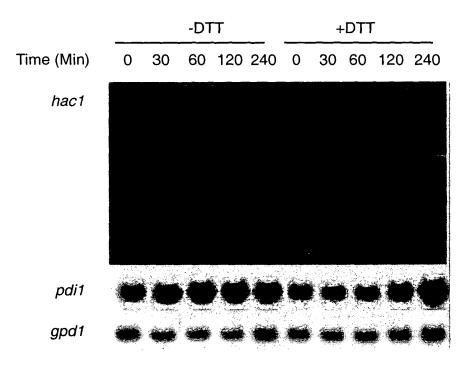


FIG._22A

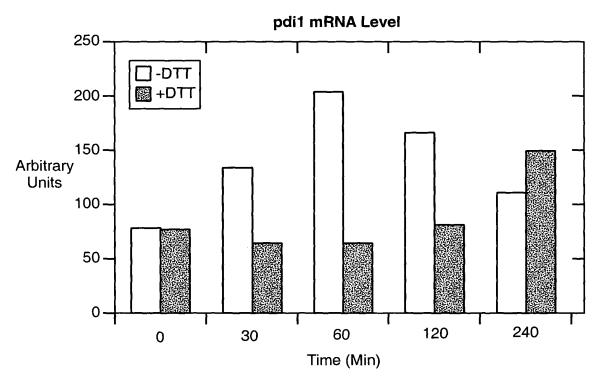


FIG._22B

Penttila et al. SN# Unassigned Docket No. GC590-2-C1

22 / 34

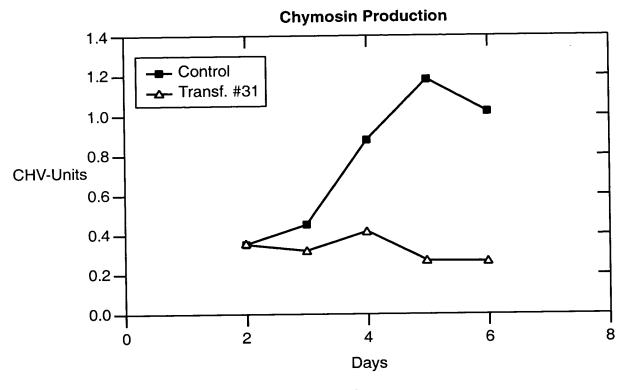


FIG._23

23 / 34

1	TTT	rga.	AC	AGC	:AG	ATC	GTI	'ACT	GC(CTAC	CCC	AGA	CGT	TAC	'AG'	rcc.	AC(GAG	CTC	ACG	GAG	GAC
	F	Ε	Q	Ç) :	Ι	V	T	Α	Y	P	D	V	\mathbf{T}	V	H	I	Ξ	L	\mathbf{T}	Ε	D
61	GA7	rga.	AΤ	TCI	TAC	ЗTА	ATC	GCI	TG	CGA'	rGg:	tgg	gtt	tcc	cct	ca	act	ttt	gcc	gct	ctg	ttc
	D	E	F					Α		D	G	-	_						-			
121	cac	caa	tc	taa	tat	tac	tac	age	AA.	CTC	GGG	ATT	GCC	'AGT	CT?	rcc	CAA	AGC	CGT	GGT	CGA	\mathbf{ATT}
				_				_	I		D						Q	Α		V	E	F
181	CGT	CTC	GC	CGC	GG	rat	CGC	GGC	CA	AGC/	AGG	ATC	TCT	'ATC	GG	ATT	TG:	ГGA	AAA	CAT	GAT	GGA
	V	R		R	G	I	Α	Α	K	Q	D	L	Y	R	: :	Ι .	C	E	N	M	M	D
241	CAA	CT	GΤ	CTC	:GC	rtc	CAA	CAG	TG	\GÃ(CTG	GTG	GAG	TTG	GC?	rgt	GAG	CAA	CAT	'GAC	CAAT	GGT
	N	С		L	Α	S	N	S	E	T	G	G	V	7 G	; (3	D	N	M	\mathbf{T}	M	V
301	CAT	ATT	ΤA	GGI	CTC	CCT	CAA	TGG	AA	AAA	CTA	AGG	AAG	AGT	'GG	rac.	AA	CCA	GAT	'CGC	GGA	GCG
	I	I		G	L	L	N	G	K	Т	K	Е	E	: W	1 3	Y :	N	0	I	Α	E	R
361	GGT	ГTG	СT	ĀAC	GG	CGA	CGG	CCC	TT	TG	CTC	CGC	CCG	AAT	'AC	GC.	AA(ЭŤС	TCT	'CGA	\GGA	ACC
	V	A	-	N	G	D	G	P	С	Α	P	P	E	Y	. (3	K	S	L	E	E	P
421	CAC	GG	CC	TCC	AA'	rcc	CTA	CTG	AC	rga.	ACC	GTG	GGG	GTT	'GC	AGC	TGA	TAA	TCC	'GAC	GAC	CTG
	Т	A		s	N	P	Y	*														
481	GAZ	ATC	CA	TAA	CCZ	TTA	TTG	AAC	AG	AAC	CCG	GAC	GAG	TAC	GAG	GAT	CGZ	ACC	'ACG	ATC	GCT	CCC
541																					TAA	
601	CAC	GA	ĀΑ	ACA	GA	AТG	ACG	AGC	AA	CTC	TTT	GAC	CAA	ACC	GG	GA	GG	AGA	ATC	'ACC	CAG	ACC
661	AAC	STG	CA	ACC	CCZ	AGA	ATA	CCC	AC	ACA	GAA	AGA	TAA	GAC	CG	rga.	AGO	GGA	CGC	CTG	GGC	CTC
721	AA	rcc	GC	GGC	TC	CCC	AGA	CGA	AC	ACG	rcc	GCT	TCG	GAT	'GG	CTC	AĞ	AGC	CTT	'CTA	ACA	CAC
781	CGC	CAG	ÀΑ	ACC	CG	CCT	'CTT	CGT	'AG	CTT	CGT	CAT	GAG	ATT	'TA	CGC	CTO	GAT	TCC	CTT:	CAT	TTT
841	GGT	CTC	СТ	GAA	AC	GAC	TCG	TGA	TT	CA	CGA'	TCC	ACA	CCC	GC	CGC	CCC	CAT	CTC	CAC	GCC	CGG
901	TGO	CG	AΑ	GCC	TC	ACA	ATT	CTG	CCC	CCC	ATA	CGG	TCG	CTC	AT'	ГGA	TT	rTC	TGT	TTC	TCA	CGA
961	TTT	rga.	AG	GCG	CA	ГTG	GTG	CTT	GTO	GAC	CGC	GAA	GAT	GCG	AA	AGA	GAG	CGG	ACC	'ATA	TCA	TCC
1021	CCI	ľTC	TΑ	TCT	CT	rgt	Γ	LAA	CCC	CAT	CTT	СТТ	ACT	$\mathbf{r}\mathbf{r}$	TAC	CGA	GC	ГСA	TCC	'AGA	TCA	AAT
1081	CAC	CT	TC	GTG	. TT	АСТ	CCA	GGA	TGO	TAT	ATC:	ጥጥጥ	GAG	TAA	TCC	GCC	GAZ	ATG	GGT	'GGA	AGGC	ATC
1141																					CTC	
1201																					GAA	
1261	ጥልባ						~			J. 101						J 1				J C		

24 / 34

61 TCAGCCACGTCCTCGTGTCCTATAACCTTTCGCAGCCTACGGTCCCGCCTCCAGAGGTCT 121 CGCGTCCCTGAGTACCAAACGATAGAAACAAGACTGCTATCTTTGTCGTGCTGCCTCCTC 181 CCCTCCTCGACGCTTTTCCTCCCCCTCGATCGCTTTCCCGGCCCTCGTGAGACGTCGCAG 241 CCATGGGCCAAACCCTCTCGGAGCCCGTTGTCGAAAAGACTTCCGAAAAGGGCGAGGATG E PVVE T S Ε OTLS K KGED 301 ACAGACTCATCTACGGCGTGTCCGCCATGCAGGGCTGGCGCATCAGCATGGAGGACGCTC I Y S A M Q G W SMEDA G V R I 361 ACACGCTGAGCTGAATCTCCCCCCACCTGACAACGACACCAAGACGCACCCCGACAGGC Ρ P P D N \mathbf{T} K Т AELNL D Н PDR 421 TGTCCTTTTTCGGAGTCTTCGACGGACACGGAGGAGACAAAGTAGCGTTATTCGCAGGCG SFF G V F D G H G G D K V A L F A G 481 AGAACATTCACAACATTGTTTTCAAGCAGGAGAGCTTCAAATCCGGTGATTACGCTCAGG I V F K Q E S F K S GDYA Q IHN 541 GTCTCAAGGACGGCTTTCTCGCTACGGATCGGGCTATTCTCAACGACCCCAAATACGAAG LК D G FLAT D R A I LNDPKYE 601 S C V G C \mathbf{T} Α \mathbf{T} L Ι Α G N K L Y 661 CCAACGCCGGTGATCTCGAAGCGTGCTGGGCATCAAGGGACGGGCCAAACCCCTATCCA N A G D S R S V L G I K G R A K P L S 721 ACGACCACAAGCCTCAGCTTGAAACGGAGAAGAACCGAATCACAGCCGCTGGCGGTTTCG D H K P TEKNRI Q L E \mathbf{T} Α AGGF 781 TCGACTTTGGCCGAGTCAACGGCAATCTGGCTCTGTCGCGTGCCATTGGCGACTTTGAAT GRVN G N L A L S R A I G D F E 841 TCAAGAAGAGCGCCGAGCTGTCCCCCGAAAACCAGATCGTTACCGCCTTTCCCGATGTCG A E L S Р Ε N 0 I V T Α 901 AGGTGCACGAGCTTACAGAGGAGGACGAGTTCCTGGTGATTGCCTGTGACGGTATCTGGG 7.7 Η \mathbf{E} T. \mathbf{T} E E D E F L V Ι Α C D G T 961 ATTGCCAATCTTCCCAGGCTGTTGTTGAGTTTGTGCGACGAGGCATCGCCGCCAAGCAGG С Q S S Q A V V Ε F V R R G I AAKQ 1021 ACCTTGACAAGATCTGCGAGAACATGATGGACAACTGCCTTGCGTCCAACTCAGAAACGG C C L D K Ι E N M M D N L Α S N S E GTGGCGTCGCCGACAACATGACCATGGTCATCGTCTTCCTGCACGGCAAGACCA 1081 V G С D N М Т M V Ι Ι G F L Η G K AGGAGGAGTGGTATGACGAAATTGCCAAGAGAGTGGCCAACGGAGACGCCCCTGTGCCC Ε W Y D E I Α K R V Α N G D G Р C Α 1201 CCCCGGAATATGCCGAGTTCCGCGGTCCCGGCGTTCACCACAACTACGAAGACAGCGACA E F R G P G V H Y \mathbf{E} \mathbf{E} Y Α Н N $\mathbf{D} \cdot \mathbf{S}$ D 1261 GCGGCTACGACGTCGACGCCGACAGCGGCGGCAAGTTTAGCCTTGCCGGATCCCGGGGTC D Α D S G F S G Y D V G K Α G S R G L GCATCATCTTCCTGGGCGACGCACCGAAGTCCTGACGGGCTCCGACGACACGGAGATGT 1321 G \mathbf{T} I Ŧ L G D T E V L G S D DT 1381 TTGACAATGCTGACGAGGACAAGGACCTTGCGAGCCAGGTGCCCAAGAGCTCCGGCAAGA D N A D E D K D \mathbf{L} Α S 0 V P K S CCGATGCAAAGGAGGAGACAGAGGCCAAGCCGGCACCAGAGGCGGAGTCGTCCAAACCCG Α K E E Т Ε Α K Р Α Ρ Е Α \mathbf{E} S K CGGATGGGTCGGAGAAGAAGACGAAAAGACACCCGAGGAGAGTAAGAAGGATTAGG T P D \mathbf{E} K K Q D E K \mathbf{E} \mathbf{E} S K K 1561 TGGTCCTCTTGAATTCTTTGGGCTCGTCTCCTTGAAGCCCCGCGCTGGTGTTGTTGATGG 1621 1681 AACCCCAGGCGTGAGGGCATTTTTAAATCGCATAGGGAGTGGGGGAGAGACGGGAGAGGC 1741 TCTGGAACGAAACATTCTGGGAGACAAGGCAGAGAGCGTAGGGGCGGTTTAGACATTGAG 1801 TGTTGCTCGTTAAAAAAAAAAAAAAAAAAAAA

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CGGAGGCAAGAGTCATAGACGCGGGAAGAAGAAAATTGAGAGTGAGAAAGAGGAATCTGA	60
G G K S H R R G K K K I E S E K E E S D	
TCACGCCCTGGCACCTTGCAACCCCCGGCTGGGCCCGATGCCGGGTTAGCTCTCACCCG	120
HAPGTLQPPAGPDAGLALTR	
CACTGCATCTAATGAGGTGTTTGAAGCGGACGGTGTCATCCAGATTGGCCGTTTGAAGGT	180
TASNEVFEADGVIQIGRLKV	
CTTTACGGCTGACGTTCTGGGTCATGGAAGCCACGGGACAGTTGTTTACCGCGGGTCGTT	240
FTADVLGHGSHGTVVYRGSF	
TGACGGCCGAGACGTCGCGGTCAAACGTATGCTGGTGGAGTTCTATGATATTGCATCGCA	300
D G R D V A V K R M L V E F Y D I A S H	500
CGAAGTGGGATTGTTGCAGGAAAGCGATGATCATAACAACGTTATCCGATGTTATTGCCG	360
	300
EVGLLQESDDHNNVIRC	420
TGAGCAAGCCAAGGGTTTCTTCTACATCGCCCTTGAACTGTGTCCGGCTTCTTTGCAGGA	420
E Q A K G F F Y I A L E L C P A S L Q D	
TGTGGTAGAACGACCAGACGCGTTCCCGCAGCTAGTCAATGGTGGCTTGGATATGCCGGA	480
V V E R P D A F P Q L V N G G L D M P D	
CGTCTTGCGTCAAATTGTCGCCGGTGTCCGGTACCTACACTCTCTCAAAATCGTACACCG	540
V L R Q I V A G V R Y L H S L K I V H R	
TGACTTGAAGCCTCAAAATATCCTGGTCGCCGCTCCTCGAGGCCGTATCGGTTCTCGGGC	600
D L K P Q N I L V A A P R G R I G S R A	
CATCCGGCTTCTGATTTCGGACTTTGGCTTGTGCAAGAAACTTGAGGATAACCAGAGTTC	660
I R L L I S D F G L C K K L E D N Q S S	
ATTCAGGGCAACCACGGCCCATGCTGCTGGTACTCCGGGTGGAGGGCTCCCGAACTGCTT	720
F R A T T A H A A G T P G G G L P N C L	
GTGGATGACGACAAGAGCCGGTAATCAGGGTTCAGAGTCTCAAAATACGGAGTCATCTGA	780
W M T T R A G N Q G S E S Q N T E S S E	•
GCCGCCGTCGTCGATCCCCAGACGAATCGACGAGCCACCCGAGCCATTGATATCTTCTC	840
PAVVDPOTNRRATRAIDIFS	040
CCTGGGATGTCTTCTACTACGTCCTAACTCGAGGATGTCATCCTTTTGACAAGAATGG	900
	900
L G C V F Y Y V L T R G C H P F D K N G	0.00
CAAGTTCATGCGCGAAGCAAATATCGTCAAGGGGAATTTCAATCTCGATGAGTTACAGCG	960
K F M R E A N I V K G N F N L D E L Q R	
TCTAGGAGAGTATGCGTTTGAAGCAGACGATCTTATCCGATCAATGTTGGCACTTGATCC	1020
LGEYAFEADDLIRSMLALDP	
ACGTCAACGgtatgtcccaacaacatcttcctttgccttgtggcgtagcgtactaatctc	1080
R Q R	
cacagCCCCGACGCAAGCGCTGTGTTAACCCATCCTTTCTTCTGGAATCCGTCCG	1140
PDASAVLTHPFFWNPSDR	
CTTAGCTTCCTCTGTGACGTTTCGGACCACTTCGAGTTCGAACCGAGAGATCCTCCATCT	1200
LSFLCDVSDHFEFEPRDPS	
GACGCTCTTCTGTGTCTAGAGTCTGTAGCCTCTGATGTCATTGGCCCTGAAATGAATCCT	1260
DALLCLESVASDVIGPEMNP	
CAAACTCCTGCCAAAGGACTTCAAAGACAGTCTCGGAAGCAGCGAAAATACACCGGCTCC	1320
	1000
отраксторочекоркутся	
Q T P A K G L Q R Q S R K Q R K Y T G S	1320
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCG	1380
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCG K M L D L M R A L R N K R N H Y N D M P	
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTG	
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V	1440
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V CGTTTCCCGAGTTTGCTGATGAGTTGTCATTGGGTGATTGTTGAACTGGGATTGACGAAG	1440
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V CGTTTCCCGAGTTTGCTGATGAGTTGTCATTGGGTGATTGTTGAACTGGGATTGACGAAGR F P S L L M S C H W V I V E L G L T K	1440 1500
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V CGTTTCCCGAGTTTGCTGATGAGTTGTCATTGGGTGATTGTTGAACTGGGATTGACGAAGR F P S L L M S C H W V I V E L G L T K ACGGATCGGTTCCAAGAGATATTTTACGCCATTGGAGTAGGTTGTTGCGTACTGGTTCAG	1440 1500
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V CGTTTCCCGAGTTTGCTGATGAGTTGTCATTGGGTGATTGTTGAACTGGGATTGACGAAGR F P S L L M S C H W V I V E L G L T K ACGGATCGGTTCCAAGAGATATTTTACGCCATTGGAGTAGGTTGTTGCGTACTGGTTCAGT D R F Q E I F Y A I G V G C C V L V Q	1440 1500
AAAATGCTGGACTTGATGCGAGCCCTGCGGAACAAGCGCAACCACTACAATGATATGCCGK M L D L M R A L R N K R N H Y N D M P GAGCATTTGAAAGCTCATATTGGTGGGCTGCCGGAGGGTTACTTGAATTTCTGGACCGTGE H L K A H I G G L P E G Y L N F W T V CGTTTCCCGAGTTTGCTGATGAGTTGTCATTGGGTGATTGTTGAACTGGGATTGACGAAGR F P S L L M S C H W V I V E L G L T K ACGGATCGGTTCCAAGAGATATTTTACGCCATTGGAGTAGGTTGTTGCGTACTGGTTCAG	1440 1500

26 / 34

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1						GGC							-	-						
61	TGA																			
121	AGC	CCAC	CGA!	rcg.	TAA	CCA	CAG	CCT	GCA	CCA	CTT	TCT	CCT	CGT	CAT	'ATT	'CGC	GGG	GAC	TCA
181	CAA	GCG	GTT.	rcc	GTT	'GCC'	TTC	GAA	TTC	GAC	AGA	GCT	GCG.	ACT	GCG	AGT	CAT	TTC.	AGC	GAC
241	TCT	AAA	CCTA	ACT	ССТ	TTG	GCT	GCT	GCG	CGG	GAC	TGG	TTC	TGC	CCA	GCC	TCT	CCT.	АСТ	CGA
301	CCA																			
361	GCG									-										
421	CTC																			
481	TCT	CCG	3CA(CCC	CGA	CTT	TCG	TCT	CGA	TCA	TGA	TGC	GGC	GAC	CCC	CGA	GCC	AAG	GAC	
																				M
541	GGT	CCG	CGT	CGC	ATC	AGA	AGC	TCT	CCT	GGC	TTT	TGC	CTT	TAT'	Γ CT	CAT	'ACC	ATG	GCT	CCA
	V	R	V	Α	S	\mathbf{E}	Α	L	L	Α	F	Α	F	I	L	I	P	W	\mathbf{L}	0
601	ACT'	TGC	CGA	rgc	TCA	GCA	GCA	GCC	TCA	GCA	GCC	CCA	GAT	TCG	ТАА	ייירבא	CTC	ACA	AAG	AGG
	L	A	D	A	0	Q	Q	P	0	0	P	0	I	R	I	H	s	0	R	G
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221	D	A	_	_	_	K	V	A	D	D	A	N	T	R	W	Y	A	_	H	A
721						CCC														
	Α	P	D	V	H	P	E	A	K	F	D	T	V	N	R	K	Q	K	Q	Q
781	GTC	GAC	CGC'	rrc(GCC	CCA	GCA	ACA	.CCA	GAA	ATA	TCG	ACG.	AGC	CCC	CTA	TGA	CTA	CGC	CAG
	S	${f T}$	Α	S	P	Q	Q	H	Q	K	Y	R	R	Α	P	Y	D	Y	Α	S
841	CAA	GGA(CAAC	GGC	CCA	GAA	CCG	ATA	TGC	GCA	GCA	CCC	TAT	CCG	CGA	ATC	CGA	GAA	ACC	AAA
	K	D	K	Α	0	N	R	Y	Α	0	Н	P	I	R	E	S	E	K	P	N
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	Y	v	K	v	P	N	D	A	S	A	L	A	T	L	A	P	A	0	P	v
961	_	-		-	_	CTC	-		-		_		_	_		-		_	_	_
901																				
4004	Ŕ	A	P	H	T 	S	R	H	H	W	P	S	S	S	A	Α	S	_G 	L L	A
1021						GCG														GGC
	S	P	H	N	Α	R	S	L	E	D	W	Ε	V	E	D	F	V	L	L	Α
1081	GAC	CGT	CGA'	rgg.	AGA	CCT	CTA	TGC	CAG	CGA	CCG	AAA	GAC	CGG	TCG	GCA	CCT	CTG	GCA	CCT
	${f T}$	V	D	G	D	L	Y	Α	S	D	R	K	\mathbf{T}	G	R	Ħ	L	W	H	L
1141	CGA	GGT(CGA	CCA	GCC	AGT	GGT	TGA	AAC	CAA	ACA	CTA	CCG	AAC.	AAA	CAA	CTC	CGT	CCT	CGA
	E	V	D	0	P	v	V	E	T	K	Н	Y	R	T	N	N	S	V	L	D
1201	CGA	CGA	ימיים	~	ת ככר	CGT	CGA	CCA	_ ረጥአ	СЪТ	ירידיני	יניניר	CGT	CGA	GCC	GAC	ะกัก	CGA	ጥሮር	AGG
	D	D	Y	R	P	v	D	Н	Y	I	W	A	V	E	P	S	R	D	G	G
1261	_	_	_		_	CCC	_		_	_	• •		-	_	_	_		_	_	_
1201			-																	
1201	L	Y	V	W	I	P	_D	S	G	A	G	L	V	R	T	G	F	T	M	K
1321		_				ACT														
	H	L	V	Ε	E	L	Α	P	Y	Α	G	D	E	P	P	V	V	Y	${f T}$	G
1381	AGA	CAA	GAA(GAC	GAC	CAT	GGT	CAC	CCT	GGA	CGC	CGC	TAC	CGG	GCG	CGI	TCT	CAA	ATG	GTT
	D	K	K	${f T}$	\mathbf{T}	M	V	\mathbf{T}	L	Ð	Α	Α	${f T}$	G	R	V	L	K	W	F
1441	TGG	CTC	TAG	CGG	CTC	CCA	AGT	CAA	CGA	AGC	CGA	GAG	CTG	CCT	TCG	GCC	CAA	TGC	CTT	TGA
	G	S	S	G	S	0	V	N	E	A	E	S	C	L	R	P	N	A	F	D
1501	_	_	_	-		'AĞA	•					_	_	_		_			_	_
	D	R	D D	T	Tr.	E	C	S	S	M	G	T T	I	Tr	L	G	R	T T	E	Y
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FIG._27A

27 / 34

1561 CACGGTGGGCATCCAGAGGCGAGACGGTCGCCCTATCGCAACCTTGAAGTACGCAGAATG V G I O R R D G R P I A T L K Y A E W 1621 GGGACCCAACACCTTTGACAGCGACCTCTACCAGCAATACCACGCCTCGTTGGACAACCA G P N T F D S D L Y O O Y H A S L D N H TTACATCACCAGTCAGCACGACGGGAGAATTTACGCGTTTGACAAGTCACAGGCAGAAAA 1681 YITSQHDGRIYAFDKSQAEN 1741 CGACCTGCCCTCTACACCCACAAGTTTTCGTCTCCCGTCGCCCGGGTCTTCGATGTCTG D L P L Y T H K F S S P V A R V F D V C TCGACCGTGGGATGCGAATGCGGGAAGCAACCCGGAGCTGGTGGTTCTCCCCCAACCTCC R P W D A N A G S N P E L V V L P Q P P 1861 AATTCCAGCGCTTGATGAGAGCACTGTCAAGATGCGAAGCAACAGCATCTTCCTCAACCA I P A L D E S T V K M R S N S I F L N Q 1921 GACTGAAAGCGGCGACTGGTATGCGCTCTCCGGCCGTGCGTATCCGCTTATACTCGATGC T E S G D W Y A L S G R A Y P L I L D A 1981 CCCCGTGGCCCAGATCTCGCGGGACGACTTGTGGGATATGGCCCATGCCTTTGATTCCAT P V A Q I S R D D L W D M A H A F D S I 2041 TAACCCAAATAAGCTGTCCAAGGCCCTGGTGGGAACCCACTTTCTGAATCCCGTCAAGAG N P N K L S K A L V G T H F L N P V K S 2101 CACCGGTTACCATCAGCCGCCGACGCTCCCTGCCGGCGCCCCTCGACGAGTATTACGAGGA TGYHQPPTLPAGALDEYYED 2161 CTTGGAGAACGCCTCAAACAATGCTCACGCCGTGACAAACACTGTTCCGGAGGAGCCCAC LENASNNAHAVTNTVPEEPT 2221 CATCATCACCAAAGTCAAGGCTCTTCCGCAGAGTGCTGCGAACAGCGTCATTGACTTTGT I I T K V K A L P Q S A A N S V I D F V 2281 CAGCAACCCCATTCTCATCATTTTCTTGATAGGCTCCTTGATCTACAACGAAAAGAAGCT SNPILIIFLIGSLIYNEKKL 2341 GCGACGGTCGTATCATCGGTTCCGGACTCATGGCACAATCAAGGACGTCTATCCCTTCTT R R S Y H R F R T H G T I K D V Y P F F 2401 CGTTATCGAATCTGAGGCCGGAGATGAATCAGGTGATGACAAGGACGGTGTGTTCCCATC V I E S E A G D E S G D D K D G V F P S TTCGCCGTCTCCGCGCAGTCAACCCCAGGACCAAAATGCGGAAGACCACCTGTCCAGACA 2461 S P S P R S Q P Q D Q N A E D H L S R H 2521 CAAGGTGGAGAGGAATGCCGGCGACCAGGACAAGGTCAAGGACAACAGGAGCCTGCATGA K V E R N A G D Q D K V K D N R S L H D

FIG._27B

Penttila et al.
SN# Unassigned
Docket No. GC590-2-C1

28 / 34

2581 CGTTTCTGACACCTTGGAACCGAGCAACAAGACTGTTGAGAAAACGGCCGATGTGGTCAA V S D T L E P S N K T V E K T A D V V K 2641 GCAAGTGGATGTAGCTGGCCCTGACGCACCCTCGACGGACTCCAATGGTGCTGCACCGGA Q V D V A G P D A P S T D S N G A A P E 2701 GAAGAAGAAGACTCACCGAGGCCGTCGTGGCGGTGTCAAGCACAGAAAGGGTCGGCC K K K A H R G R R G G V K H R K G R P 2761 CACCGACGCTCGCAGTCTCATGAAAACGACCCAGCTCTCACTACAGTGGACGAGGCTGT T D G S Q S H E N D P A L T T V D E A V 2821 AAGCAATGCGAAGAAGCTGGGTGACCGGCCAAGCCTGGAACCCGACGTCATGACCATCTA SNAKKLGDRPSLEPDVMTI 2881 CAACGACATGCAAGCCGTCACGGGCTCTGTTATCAGCATGGGAAACATCGAGGTCGATAC N D M O A V T G S V I S M G N I E V D T 2941 GGATGTCGAGCTTGGCATGGGCAGCAACGGTACTGTCGTATTTGCTGGCCGATTCGATGG D V E L G M G S N G T V V F A G R F D G 3001 CAGGGACGTCGCCGTCAAGAGAATGACGATTCAGTTCTACGACATTGCCACGCGAGAAAC RDVAVKRMTIQFYDIATRET 3061 TAAGTTGCTGCGCGAGAGTGACGACCACCCCAATgtaaatcagccctcatcgtttcaccc KLLRESDDHPN 3121 attttcccttcgctaacgtaaccactgtctgcacGTCATTCGGTATTACTCACAAGTGCA VIRYYSOV 3181 GCGAGGCGACTTCCTGTATATTGCCTTGGAACGCTGCGCTGCTTCATTGGCAGATGTCAT RGDFLYIALERCAASLADV 3241 TGAAAAGCCGTATGCCTTTGGTGAATTGGCCAAGGCTGGACAAAAGGACCTACCGGGCGT E K P Y A F G E L A K A G O K D L P G 3301 CTTGTACCAAATCACCAACGGCATCAGCCACTTGCACTCTCTGCGGATTGTTCATCGAGA LYQITNGISHLHSLRIVHRD 3361 CTTGAAGCCTCAAAACATCTTGGTCAACTTGGACAAGGACGGCAGACCAAGGCTCTTGGT LKPQNILVNLDKDGRPRLL v S D F G L C K K L E D R Q S S F G A T 3481 AGGCCGAGCCGCTGGAACGTCGGGATGGCGTGCCCCCGAACTGCTTCTCGATGACGACGG G R A A G T S G W R A P E L L D D D 3541 ACAGAATCCCGCAGCCATCGATAGCAGTACGCACAGCGGCTCTCACACCATCCTCGTGGG Q N P A A I D S S T H S G S H T I L V 3601 AGACCCCAACTCGCTTTCCAATGGAGGGCGAGCCACGAGGGCCATTGACATCTTCTCCCT D P N S L S N G G R A T R A I D I F S L 3661 TGGCCTTGTCTTCTTCTACGTGCTCACCAATGGATCCCACCCGTTTGACTGTGGCGACAG G L V F F Y V L T N G S H P F D C G D R 3721 ATATATGCGGGAGGTGAACATTCGAAAGGGCAACTACAATCTCGATCCATTGGACGCTCT YMREVNIRKGNYNLDPLDAL 3781 GGGCGACTTTGCCTACGAAGCCAAGGATCTGATTGCGTCCATGCTCCAGGCCTCTCCCAA G D F A Y E A K D L I A S M L Q A S P K 3841 GGCACGACCCGACTCGCGAGAGGTCATGGCCCACCCTTTCTTCTGGTCTCCGAAGAAGCG A R P D S R E V M A H P F F W S P K K R 3901 TCTGGCCTTTTTGTGCGACGTGTCGGATTCTCTGGAGAAGGAGGTGCGAGATCCTCCGTC LAFLCDVSDSLEKEVRDPPS 3961 GCCTGCCTTGGTCGAGCTGGAGCGACATGCGCCGGAGGTCATTAAGGGAGACTTCTTGAA PALVELERHAPEVIKGDFLK 4021 GGTGCTCACGCGCGACTTTGTCGAGTCGCTGGGCAAGCAGCGCAAGTACACCGGGAACAA V L T R D F V E S L G K Q R K Y T G N K 4081 GCTGCTCGACCTGTTGCGCGCTCTTCGCAACAAGCGGAATCACTACGAAGACATGTCGGA LDLLRALRNKRNHYEDMSD 4141 CTCGCTGAAGCGCAGCGTGGGATCACTGCCTGATGGGTATCTTGCTTATTGGACGGTCAA LKRSVGSLPDGYLAYWTVK 4201 GTTCCCGATGCTGTTGCTGACGTGCTGGAACGTGGTGTATAATCTCGAGTGGGAGAAGAC PMLLLTCWNVVYNLEWEKT DRFREYYEPAGL 4321 AAGAAAGGCCTCTTGCTTGTTTGGTTGCTGTATATCTTTTTGCTCGAAGATGGAAACGGA 4381 AAATATTGGGGAAGTTGCATGGGAAGTGAACAAAAGAGGGGGAAAAATGGTGAATGTGAAA 4441 GCAAAGTCGGTTAGCGGGTGGGCATGGTCGTCATCCATGTAATTGTTTCAGCTTCTGTTG 4501 CATCAAAAGCGTTGTGTTTTCGTTCTTT

FIG._27C

н	CTTTTTATTGTTCTTAAGGACACCTGTCCTTCTTGGCCCTATCCTTGTT M V L K D T C P S W P Y P S C
61	GTCTGGTACACTTGACCCCAGGCACCAGGCCTGGCCCCCCCAGCTTCCCCCG C L V H L T P G T T W P G L A P P A S P
121	TTATGACACGGTGGCCTGTGTTCCTGTGACACGGCCAAGCAGACGTCCTCCACAAGCTGT ${ m V}$ ${ m M}$ ${ m T}$ ${ m R}$ ${ m W}$ ${ m P}$ ${ m V}$ ${ m F}$ ${ m L}$
181 241	GTCGACCTACATCACCGTCCTCCCTTGCAGTGCGGTTAAGATAAGGCTCATAGTAAATCG ATTGATCCACAATTAAAGATCAATCACCTGTCACGCTTGAAATGATGGAAGAAGCATTCT M M E E A F
301	CTCCAGTCGACTCCCTCGCCTCCCGACGCCTGAGTTGCCATTGTTGACAGTGTCCC S P V D S L A G S P T P E L P L L T V S
361	CGGCGGACACGTCGCTCGTCAGTACAGGCAGGGGAGACCAAGGCGGAAGAGA
421	AGAAGCCTGTGAAGAAGAAAGTCATGGGGCCAGGAATTGCCAGTCCCGAAGACTAACT K K P V K K R K S W G Q E L P V P K T N
481	TGCCCCCAAGGAAACGGCCAAGACTGAGAAAGAAGAACGTCGTATCGAGCGCG L P P R K R A K T E D E K E Q R R I E R

FIG._28A

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601	AGTTC K L	3GA.	AAA' N	IGA(E	GAA(K	3ATT I	rcac Q	JATC M	3GA2 E	ACAC	CA O	AAAC N	CAG Q	TTC	CTT	CTG L	caa o	CGA R	CTAT L
661	CCCA(S Q	3AT(M	GGA.	AGC. A	TGA(E	3AA(N	ZAA: N	rcg(R	CTT2 L	JAAC N	CAN CAN CAN CAN CAN CAN CAN CAN CAN CAN	CAA	GTC V	GCT A	CAA Q	CTA' L	TCT S	GCT	3AGG E
721	TCCGC V R	3GG G	CTC S	CCG' R	TGG(G	CAAC N	ZACT T	rcc(P	ZAAC K	3CCC P	ეტე ტ	S S	ZCCC P	GTC	TCA S	GCT' A	TCT S	CCT	ACCC
781	TAACT L T	ľĊĊ. P	TAC(T	CCL	ATTI	ľa <i>a?</i> K	ACA.	AGA. ^z E	ACG(R	GGAC D	GA2	ATC I	CCT	CTT	GAA E	CGG	ATT I	CCT	ricc F
841	CCAC? P T	ACC(CTC	ľAT(I	CACC	CGA(D	CTA(Y	CTC(S	် က	racc T	TTG L	iagg R	3CCI P	TCC	ACT T	CTG L	GCT.	GAG E	rccr s
901	1 CCGACGTGACACATCCTGCAGcggtgttgtgcgacctgcagTGTCCGTCGCTGGACT S D V T Q H P A V S V A G L	CGT(GAC. T	ACA	ACA] H	rccj P	rgcz A	}G¢ċ	ggte	ytte	ttgc	gac	ictg	cag	TGT	ິດດ <i>ີ</i> ເ ເ	TCG	CTG A (3ACT 3 L
961	CGAAC	3GA(G	GAA(E	3GA) G	AGTC S	3CCC A	L L	lCT(S	CHC L	ľTTC F	ACG D	iTCG V	igcī G	CAA	ACC	CTG. P	AAC E	CTC	ACGC H A

TTCTTCGCAATCGTGCGCAGCACAACATCACGCGAGCGCCAAGAGGCTCGAAATGGAGA

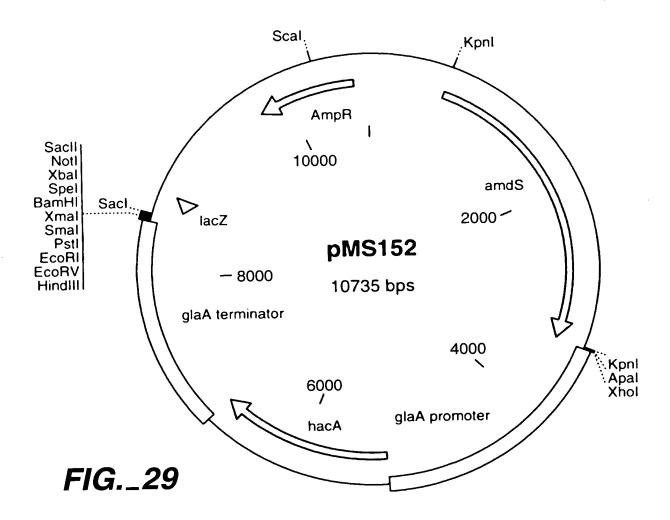
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FIG._28B

	A D D L A A P L S D D D F H R L F N V D
1081	TTCACCCGTTGGGTCAGATTCTTCAGTCCTTGAAGACGGGTTCGCCTTTGACGTTCTCGA
1141	ب
	G G D L S A F P F D S M V D F D P E S V
1201	TGGCTTCGAAGGCATCGAGCCGCCCCACGGTCTTCCGGATGAGACTTCTCGCCAGACTTC
	G F E G I Е Р Н G L Р D Е Т S К Q Т S
1261	TAGCGTGCAACCCAGCCTTGGCGCGTCCACTTCGCGATGCGACGGGCAGGGCATTGCAGC
	SVQPSLGASTSRCDGQGIAA
1321	TGGCTGTTAGCGAGCAGTTTCGCCAGGGAGATGCATCGGCTGTCGATGGTAACGGAGTCC G C
1381	AATGGAGCTGGGAGTCTTTGTTGACCTTGGCGTGGACGATAGACCTACTCGAACAGCCGG
1441	GACGACGCAAACGAATCTTGAGCGGTTTTGAAATCAGCGAAAAACTGGACGGCGAAGTAATA
1501	TTGGCAAGTCTCAAAGGAGTACACGGAGTTCATGGAGTTCACGAAGCACCCAAGAGGCGT
1561	TGACGTCTCTCTTATGGGCAAGCATAGTTGAGGTTCCGGCTGTAAATTATCATAAATCC
1621	TTATAATTTTTATTCTAGATTCAATACAGCAGTTGATTGTCTGCTCATC

FIG._28C

32 / 34



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33 / 34

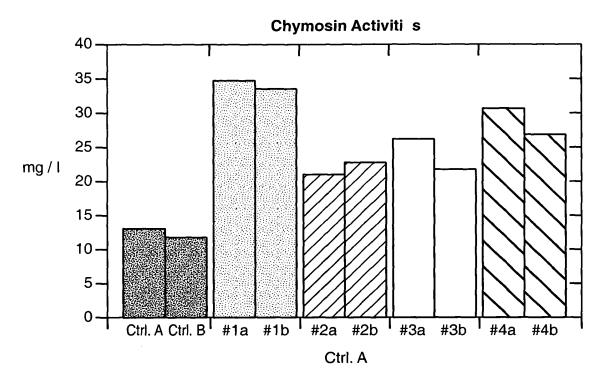


FIG._30

34 / 34

